

PATENT



ATTORNEY DOCKET NO. ACBI.028.01US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Bjornson, *et al.*

Serial No.: 09/557,519

Filed: April 25, 2000

Title: **MULTIPLE ARRAY MICROFLUIDIC
DEVICE UNITS**

)
) Examiner: Not Yet Assigned
)
) Art Unit: Not Yet Assigned
)
) **INFORMATION DISCLOSURE**
) **STATEMENT TRANSMITTAL**
)
)

BOX DD

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Transmitted herewith is:

- [X] An Information Disclosure Statement.
- [X] A PTO-1449.
- [X] International Search Report.
- [X] Return postcard (postage prepaid).

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231 on

Date

6-15-00

Signed

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1. ☒ This Information Disclosure Statement is filed before the later of:
 - ☒ three months from the filing date of this national application;
 - ☐ three months from the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application; or
 - ☐ the mailing date of a first office action on the merits.☒ In accordance with 37 C.F.R. § 1.97(b), no fee is required.

2. ☐ This Information Disclosure Statement is filed after the events noted in paragraph 2, but before either:
 - (1) a final action under 37 C.F.R. § 1.113; or
 - (2) a Notice of Allowance under 37 C.F.R. § 1.311.☐ In accordance with 37 C.F.R. § 1.97(c) also enclosed is:
 - ☐ a fee under 37 C.F.R. § 1.17(p) in the amount of \$240; or
 - ☐ a certification as stated below.

3. ☐ This Information Disclosure statement is filed before the payment of the issue fee, but after either:
 - (1) a final action under 37 C.F.R. § 1.113; or
 - (2) a Notice of Allowance under 37 C.F.R. § 1.311.☐ In accordance with 37 C.F.R. § 1.97(d) also enclosed is:
 - (1) A certification, as stated below;
 - (2) A Petition requesting consideration of the Information Disclosure Statement; and
 - (3) The petition fee set forth in 37 C.F.R. § 1.17(i)(1) in the amount of \$130.

Certification

The undersigned also states:

- ☐ Each item of information contained in the Information Disclosure Statement cited herein was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing date of this Information Disclosure Statement; or
- ☐ No item of information contained in the Information Disclosure Statement submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing date of this Information Disclosure Statement.

The fees indicated above are:

TOTAL FEES: \$ 0

- ☐ A check including the amount of the above-indicated TOTAL FEES is attached.
- ☐ Please charge Deposit Account No. 18-0020 in the amount of: \$ _____.
- ☐ A check in the amount of \$ _____ is attached.
- ☒ No fee is required.
- ☒ The Commissioner is hereby authorized to charge any underpayment of the following fees associated with this communication, including any necessary fees for extension of time, or credit any overpayment to Deposit Account No. 18-0020.
 - ☒ Any filing fees under 37 C.F.R. § 1.16 for the presentation of extra claims.
 - ☒ Any patent application processing fees under 37 C.F.R. § 1.17.
 - ☒ A duplicate copy of this sheet is attached for accounting purposes.

Respectfully submitted,

Dated: June 8, 2000

Barbara Rae Venter
Barbara Rae Venter, Ph.D.
Reg. No. 32,750

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Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

This Information Disclosure Statement is hereby submitted in accordance with 37 C.F.R. §1.98 and pursuant to Applicant's continuing duty under 37 C.F.R. §1.56 to bring any information which may be material to patentability of this application to the Examiner's attention.

References A1-34, B1-2, and C1-8 have been cited by the Examiner or the Applicants in priority Application No. 09/153,814 filed on 09/15/98. Each of these references have been cited by or submitted to the Office in a properly identified prior application, therefore under 37 C.F.R. §1.98(d) copies of these references are not required. Copies of references B3-4 and C9-10 will be submitted upon our receipt.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231 on

Date 6-15-00

Signed maria tomer

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Applicant makes no representation that a complete search has been conducted by the Applicant, or that there is not possibly more relevant art. Applicant also makes no representation that the information submitted herewith is in fact material.

- ☒ [X] Several of the enclosed publications were cited in a foreign examination report in a related case. A copy of the search report is attached.
- ☐ [] The search report is not in the English language and a translation of the search report is enclosed.
- ☐ [] Enclosed in an explanation of the relevance of non-English publications for which an English translation is not available.
- ☒ [X] The explanation is in the form of an English language search report.

The subject application is believed patentable over any of the above references.

Respectfully submitted,

Dated: June 8, 2000

Barbara Rae-Venter
Barbara Rae-Venter, Ph.D.
Reg. No. 32,750

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COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

FORM PTO-1449 (Modified)
LIST OF PATENTS AND PUBLICATIONS
FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

Sheet 1 of 4In re application of: Bjornson, *et al*

Art Unit: Not Yet Assigned

Serial No. 09/557,519

Examiner: Not Yet Assigned

Filed: April 25, 2000

U.S. PATENT DOCUMENTS

| Ref. Desig. | Examiner's Initials | Document Number | Date | Name | Class/ Subclass | Filing Date |
|----------------|------------------------|--------------------|----------|--------------------|-------------------------|-------------|
| A1 | <i>[initials]</i> | 4,658,269 | 04/97 | Resanka | 346/75 | |
| A2 | <i>[initials]</i> | 4,948,564 | 08/90 | Root et al. | 422/102X | |
| A3 | <i>[initials]</i> | 4,799,068 | 01/17/89 | Saito, et al. | 346/1.1 | |
| A4 | <i>[initials]</i> | 4,314,263 | 02/02/82 | Carley | 346/ 140 48 | |
| A5 | <i>[initials]</i> | 4,383,265 | 05/10/83 | Kobashi | 346/ 140 55 | |
| A6 | <i>[initials]</i> | 4,768,044 | 08/30/88 | Shimosato | 346/ 140 55 | |
| A7 | <i>[initials]</i> | 5,560,811 | 10/01/96 | Briggs et al. | 204/451 | |
| A8 | <i>[initials]</i> | 5,165,601 | 11/24/92 | Rodenberger et al. | 239/3 | |
| A9 | <i>[initials]</i> | 5,599,695 | 02/04/97 | Pease et al. | 435/91.1 | |
| A10 | <i>[initials]</i> | 5,608,433 | 03/04/97 | Quate | 347/37X | |
| A11 | <i>[initials]</i> | 4,952,266 | 08/28/90 | Tsuruta, et al. | 156/243 | |
| A12 | <i>[initials]</i> | 4,965,049 | 10/23/90 | Lillig, et al., | 422/68.1 | |
| A13 | <i>[initials]</i> | 5,030,418 | 07/09/91 | Miyata | 422/63 | |
| A14 | <i>[initials]</i> | 5,104,621 | 04/14/92 | Pfost, et al. | 422/67 | |
| A15 | <i>[initials]</i> | 5,356,525 | 10/18/94 | Goodale, et al. | 204/ 299 602 | |

Examiner: **JOHNS. STARSIAK JR.**Date Considered: **25 MARCH 2003**

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

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Sheet 2 of 4

In re application of: Bjornson, *et al*

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Serial No. 09/557,519

Examiner: Not Yet Assigned

Filed: April 25, 2000

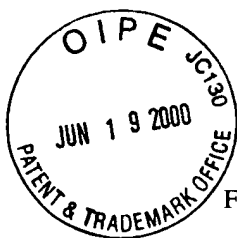
| | | | | |
|-----|-----------|----------|--------------------|---------------|
| A16 | 5,589,330 | 12/36/96 | Shuber | 435/5 |
| A17 | 5,658,413 | 08/19/97 | Kaltenbach, et al. | 156/272.8 |
| A18 | 5,324,401 | 06/28/94 | Yeung, et al. | 204/100-1 452 |
| A19 | 5,332,480 | 07/26/94 | Datta, et al. | 204/100-1 451 |
| A20 | 5,277,780 | 01/11/94 | Kambara | 204/299-1 603 |
| A21 | 5,413,686 | 05/09/95 | Klein, et al. | 204/299-1 603 |
| A22 | 5,439,578 | 08/08/95 | Dovich, et al. | 204/299-1 603 |
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| A32 | 4,626,509 | 12/02/86 | Lyman | 435/283.1 |
| A33 | 5,213,776 | 05/25/93 | Maniero | 422/303 |

Examiner: **JOHNS. STARSIAK JR.**Date Considered: **25 MAR 2003**

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Sheet 3 of 4

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Serial No. 09/557,519

Examiner: Not Yet Assigned

Filed: April 25, 2000

| | | | | | |
|-----|-------------------|-----------|----------|---------------|----------------------|
| A34 | <i>[initials]</i> | 5,525,302 | 06/11/96 | Astle | 422/100 |
| A35 | <i>[initials]</i> | 5,126,022 | 06/30/92 | Soane, et al. | 204/180.1 458 |
| A36 | <i>[initials]</i> | 4,475,300 | 10/09/84 | Ledenican | 40/600 |
| A37 | <i>[initials]</i> | 5,110,514 | 05/05/92 | Soane | 264/422 496 |

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| Ref. Desig. | Examiner's Initials | Document Number | Date | Country | Class/ Subclass | Filing Date |
|----------------|------------------------|--------------------|----------|---------|--------------------|-------------|
| B1 | <i>[initials]</i> | 9402381 | 08/10/94 | PCT | | |
| B2 | <i>[initials]</i> | 6046257 | 03/13/85 | PCT | | |
| B3 | <i>[initials]</i> | WO 97/15394 | | PCT | | |
| B4 | <i>[initials]</i> | WO 99/24827 | | PCT | | |

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

| Ref. Desig. | Examiner's Initials | |
|----------------|------------------------|--|
| C1 | <i>[initials]</i> | Dong Hi Chai, et al., <u>Eighth International Congress on Advances in Non-Impact Printing Technologies</u> (1992), 334-9 |
| C2 | <i>[initials]</i> | Hayati, et al., <u>J. of Colloid and Interface Sci.</u> (1987), 117(1):205-21 |

Examiner: JOHN S. STARSIAK JR.Date Considered: 26 MAR. 2003

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

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|-----|---|
| C3 | Hayati, et al., <u>J. of Colloid and Interface Sci.</u> (1987), 117(1):222-30 |
| C4 | Joffre, et al., <u>J. of Electrostatics</u> (1986), 18:147-61 |
| C5 | Kozhenkov, et al., <u>Russian Chemical Reviews</u> (1976), 45(12):1179-84 |
| C6 | Meesters, <u>J. Aerosol Sci.</u> (1992), 23(1):37-9 |
| C7 | Ross N. Mills, <u>ESIJET Printing Technology</u> , IS&T's NIP, 12:262-6 |
| C8 | Saville, <u>Annu. Rev. Fluid Mech.</u> (1997), 29:27-64 |
| C9 | Wooley and Mathies, <u>Proc. Natl. Acad. Sci. USA</u> (1994), 91:11348-52 |
| C10 | Wooley, et al., <u>Anal. Chem.</u> (1997), 69:2181-6 |

Examiner: **JOHN S. STARSIAK JR**

Date Considered: **28 MARCH 2003**

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.